Notice of Allowability	Application No.	Applicant(s)	
	09/430,691	TOIVONEN, ANTHONY	
	Examiner	Art Unit	
	Thu Ha T. Nguyen	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *communication filed 12/23/04*.

2. ☒ The allowed claim(s) is/are *1-4,7,8,10-12,14 and 20-23*.

3. ☒ The drawings filed on *29 October 1999* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

SALEH NAJJAR
PRIMARY EXAMINER

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Applicants' Representative, Mr. William E. Hunter (Reg. No. 32,030), on July 8, 2005.

3. The application has been amended as follow:

In the claims:

4. Claims 1, 7, 10, 14, 20, 21 and 22 are amended as following:

Claim 1:

1. (Currently amended) A distributed component system in a network comprising:

a client node configured to process client activation requests; and

a server node configured to monitor activation requests from the client node, said server node operating to enable the client node to activate remote components on available server nodes without specific names or capabilities of nodes in the network servicing the requests,

wherein said remote components comprise reusable program building blocks that are combinable with one or more other components in a distributed network to form an application, and

wherein the client node comprises an augmentation module configured to intercept a remote component activation request from a client-based remote component creation mechanism and configured to broadcast information about the intercepted remote component activation request.

Claim 7:

7. (Currently amended) A method comprising:

receiving a machine-independent activation request from a client in a network, wherein said activation request comprises a request to activate a reusable program building blocks in the network to form an application;

multicasting said activation request to the network, wherein said receiving a machine-independent activation request and said multicasting said activation request occur in a client-augmentation module configured to intercept a remote component activation request from a client-based remote component creation mechanism to enable a client node to activate remote components on available server nodes without specific names or capabilities of nodes in the network servicing activation requests; and

receiving capability information from servers available to service said activation request.

Claim 10:

10. (Currently amended) A method comprising:

monitoring at a server a specific port to receive a machine-independent client activation request within a network from a client-augmentation module configured to intercept and broadcast a remote component activation request from a client-based

remote component creation mechanism to enable a client node to activate remote components on available server nodes without specific names or capabilities of nodes in the network servicing activation requests, wherein said activation request comprises a request to activate a reusable program building blocks in the network to form an application;

retrieving a client address from an IP packet associated with the request; and

returning capability information of the server to the client address.

Claim 14:

14. (Currently amended) A method comprising:

receiving a machine independent activation request from a client in a network, wherein said activation request comprises a request to activate a reusable program building block that is combinable with one or more other reusable program building blocks in the network to form an application;

multicasting said activation request to the network, wherein said receiving and said multicasting occur in a client-augmentation module configured to intercept a remote component activation request from a client-based remote component creation mechanism to enable a client node to activate remote components on available server nodes without specific names or capabilities of nodes in the network servicing activation requests;

requesting capability information from servers available to service said activation request;

monitoring a port that is tied to a multicast IP address;

retrieving a client address from an IP packet; and

returning capability information of [the] a server to the client address.

Claim 20:

20. (Currently amended) A computer program, residing on a computer readable medium, the program comprising executable instructions that enable [the] a computer to:

receive a machine-independent activation request from a client in a network, wherein said activation request comprises a request to activate a reusable program building block that is combinable with one or more other reusable program building blocks in the network to form an application;

multicast said activation request to the network, wherein the instructions that enable the computer to receive a machine-independent activation request and multicast said activation request reside in a client-augmentation module configured to intercept a remote component activation request from a client-based remote component creation mechanism to enable a client node to activate remote components on available server nodes without specific names of capability of nodes in the network servicing activation requests; and

receive capability information from servers available to service said activation request.

Claim 21:

21. (Currently amended) A computer program, residing on a computer readable medium, the program comprising executable instructions that enable [the] a computer to:

monitor at a server a specific port that is tied to a multicast IP address to receive a machine-independent client activation request within a network from a client-augmentation module configured to intercept and multicast a remote component activation request from a client-based remote component creation mechanism to enable a client node to activate remote components on available server nodes without specific names or capabilities of nodes in the network servicing activation requests, wherein said activation request comprises a request to activate a reusable program building block that is combinable with one or more other reusable program building blocks in the network to form an application;

retrieve a client address from an IP packet associated with the request; and

return capability information of the server to the client address.

Claim 22:

22. (Currently amended) A computer program, residing on a computer readable medium, the program comprising executable instruction that enable [the] a computer to:

receive a machine-independent activation request from a client in a network, wherein said activation request comprises a request to activate a reusable program building block that is combinable with one or more other reusable program building blocks in the network to form an application;

multicast said activation request to the network, wherein the instructions that enable the computer to receive a machine-independent activation request and multicast said activation request reside in a client-augmentation module configured to intercept a remote component activation request from a client-based remote component creation mechanism to enable a client node to activate remote components on available server nodes without specific names or capabilities of nodes in the network servicing activation requests;

request capability information from servers available to service said activation request;

monitor a port that is tied to a multicast IP address;

retrieve a client address from an IP packet; and

return capability information of the server to the client address.

Reasons for Allowance

5. Claims 1-4, 7-8, 10-12, 14, and 20-23 are allowed.

The following is an examiner's statement of reasons for allowance: The prior arts of record teaches and discloses a system includes a dynamic host configuration protocol (DHCP) server sends DHCPOFFER message to DHCPDISCOVER messages sent from DHCP clients which using a traditional approach to dynamic allocation of IP address to client device (See Mouko reference) and a system and method for selecting multimedia information residing on a plurality of systems connected to a network, and for linking the multimedia information across the network so that any viewer of a website

or other network resource can directly access updated information in real time (See Hobbs reference). The invention has some particular combination limitations that are different and distinct from prior arts (see applicant's remarks dated December 23, 2004 with respect to point out the reason claims are patentable over the prior art of record). Among the differences between claimed invention and the prior art of record, the major difference is the combination of a method and system for a client machine-independent node configured to activate a remote component activation request wherein said remote components comprise reusable program building blocks that are combinable with one or more other components in a distributed network to form an application; a server node configured to monitor activation requests from the client node, said server node operating to enable the client node to activate remote components on available server nodes without specific names or capabilities of nodes in the network servicing the requests, and wherein the client node comprises an augmentation module configured to intercept a remote component activation request from a client-based remote component creation mechanism and configured to broadcast information about the intercepted remote component activation request are novel thus the invention is patentable.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Ha Nguyen, whose telephone number is (571) 272-3989. The examiner can normally be reached Monday through Friday from 8:00 AM to 6:00 PM.

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Najjar Saleh, can be reached at (571) 272-4006.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ThuHa Nguyen

July 8, 2005

SALEH NAJJAR
PRIMARY EXAMINER